	/
ubstitute for Form 1449/PTO	AUG 1 1 2004
INFORMATION	MISCLOS BRI
STATEMENT B	Y APPLICANT
(use as many sheet	ts as necessary)

of

Sheet

Complete	if Known
Application Number	09/955,529
Filing Date	September 17, 2001
First Named Inventor:	Mark Peting
Art Unit	2631
Examiner Name	Not Yet Assigned
Attorney Docket Number	004259.P032

			U.S. PAT	ENT DOCUMENTS	8	
Examiner Initials*	Cite No.	Numb	Document Number er-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
a	1	US-	4,015,238	3/29/1977	Robert Curtis Davis	
		US-	5,027,374	6/25/1991	Mark W. Rossman	AUG 1 3 2004
7		US-	5,291,499 A	3/1/1994	Behrens et al.	
		US-	5,295,142	3/15/1994	Izumi Hatakeyama Ter	hnology Center 260
7		us-	5,349,608	9/20/1994	Graham, et al.	AUTO OBY COUNTY EOO
		US-	5,608,737 A	3/4/1997	Kimura, et al.	
T		US-	5,907,586	5/25/1999	Katsuragawa, et al.	
		US-	6,189,126 B1	2/13/2001	Ulmer, et al.	
		US-	6,266,687 B1	7/24/2001	Leyonhjelm, et al.	
		US-	6,301,314 B1	10/9/2001	Murayama, Jun	
a		US-	6,563,889 B1	5/13/2003	Shih, et al.	
		US-				
		US-				
		UŞ-				
		US-				

2

		FO	REIGN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°

Examiner		Date, Considered	
Signature	J 7	1/28/08	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

of

Complete if Known Application Number 09/955,529 September 17, 2001 Filing Date First Named Inventor Mark Peting Art Unit 2631 **Examiner Name** Unassigned Attorney Docket Number 4259P032

2 Sheet 2 NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, Examiner Cite magazine, journal, senal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or Initials* No. country where published. BOUCHERET/MORTENSEN/FAVARO, "Fast Convolution Filter Banks for Satellite Payloads with On-Board Processing," IEEE Journal on Selected Areas in Communications, February 1999, pp. 238-247, Vol. 17, No. 2, XP-000851758 YIM/COAKLEY, "On-Board Processing for KA-Band Applications," February 11, 1993, pp. 225-229, University of Surrey, UK, XP 000458011 OCT 2 0 2003 Technology Center 2600

Examiner Signature	Coc	An	Date Considered /29/05	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number. "Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

OT 16 2003 ST

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known						
Application Number	09/955,529					
Filing Date	September 17, 2001					
First Named Inventor	Mark Peting					
Art Unit	2631					
Examiner Name	Unassigned					
Attorney Docket Number	4259P032					

			U.S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No.	Document Number Number - Kind Code ² (if known)	Publication Date Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
an		US-6,278,725 B1	08-21-2001	Rouphael et al.	
5	ł	US-6,266,687 B1	07-24-2001	Leyonhjelm et al.	
		US-			RECEIVED
		US-			I I L O L I V I I I I
		US-			OCT 2 0 2003
		US-			
		US-			Technology Center 260
		US-			reciniology
		US-			
		US-			·
		US-	,		
		US-			<u> </u>
		US-			
		US-			
ļ		US-			
		US-			

		FOF	REIGN PATEN	IT DOCUMENTS		
Examiner	Cite	Foreign Patent Document			Pages, Columns, Lines,	-
Initials*	No.1	Country Code' - Number' - Kind Code' (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
0	1	WO 01/59937 A2	08-16-2001	Qualcomm Incorporated		
6		WO 00/74264 A1	12-07-2000	Watkins-Johnson Company		

	//		
Examiner Signature	42	Date Considered	1/28/05

*Examiner: Initial if reference pensidered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next confinunciation.

'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the Indication of the year of reign of the Emperor must pracede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.

Substitute	for Form	1449/PTO			mplete if Known	
INFO	PRMA	TION DISC	LOSURE	Application Number	09/955,529	
СТА	TENA	NT DV ADI	DITOVNIT	Filing Date September 17 COLUMN		Æ!
51A		ENT BY APF many sheets as neces		First Named Inventor:	Mark Peting	
	(036 03	many sneets as neces	isary)	Art Unit	2631 AUG 1 3 20	<u>UU4</u>
		<u> </u>		Examiner Name	Not Yet Assigned	itor O
Sheet	2	of	2	Attorney Docket Number	004259.P03bechnology Cen	1101 2
			NON PATENT L	ITERATURE DOCUMENTS		
Examiner Initials*	Cite No ¹	Include name of item (book, r	nagazine, journal, s	ITAL LETTERS), title of the arti serial, symposium, catalog, etc. blisher, city and/or country whe	cle (when appropriate), title of the), date, page(s), volume-issue re published	T²
W		Research Group,	BREE, ET AL., "A Bit-Serial Architecture For A VLSI Viterbi Processor", Communications Systems Research Group, University of Saskatchewan, Saskatoon, IEEE, WESCANEX '88, 1988, pages 72-77.			
4		Science Publishe Pages 3-16.				
a		Communications International Con	BREE, ET AL., "A Modular Bit-Serial Architecture For Large Constraint-Length Viterbi Decoding", Communications Systems Research Group, University of Saskatchewan, Saskatoon, Canada, IEEE International Conference on Communications", 1990, pages 1501-1506.			
~	-	Speech and Imag	e Technologies for	itecture For High-Speed Optica Computing and Telecommunic ectronics, Vol. 1, Dec 1997, pag	al Storage", 1997, IEEE TENCON - lations, ASIC Center Corporate ges 89-92.	
a	/	W.H. YIM and F.I Surrey, UK, Publi	P. COAKLEY, "On-lication Date, Februa	Board Processing For KA-Band ary 11, 1993., XP 000458011, p	Applications", University of op. 225-229.	
a		HASHIDA MITSU Management Info	JYOSHI, "Hierachic ormation," Patent At	al Network Management System ostracts of Japan, Publication N	m and Control Method for Network lo. 07226777	
					•	
					·	

Examiner		Date	1/20	la
Signature	m ff	Considered	92	700

*Examiner. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substi		Form 1449A/PT nany sheets as necess			Attorney Docket No.: 04259.P032	Application Number: 09/955,529		
0, 0 6	70B	,,			First Named Inventor: Mark Peting			
JUH O 4	SMARH	•			Filing Date: September 17, 2001			
				U.S. PATEN	NT DOCUMENTS			
Exam.	Cite	U.S. Patent	Document	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns,		
Initial*	No.¹	Number Code ²	Kind (If known)		of Cited Document	MM-DD-YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
a		5,778,192			Schuster, et al.	7-7-1998		
9	-	6,157,997			Oowaki, et al.	12-5-2000		
						REC	EIVED	
						JUN	6 2003	
						Technology	Center 2600	
					-			

Exam.	Cite	Foreign Patent Document			Name of Patentee or Applicant	Date of	Pages,	T6
Initial* No.	No.¹	Office ³ Code ⁵	Number	Kind (If known)	of Cited Document	Publication of Cited Document MM-DD-YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
a		EP	0 762 777		Uchiumi, Tadasgu, et al.	3-12-1997		
						·		

Examiner	(1 1	Date Considered
Signature	<u> </u>	#~	1/28/05

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. *See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁴Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)					Attorney Docket No.: 04259.P032	Application Number: 09/955,529		
		MAR 0 5 2002			First Named Inventor: Mark Peting			
		Te BARRAPON ON			Filing Date: September 17, 2001	RECEI√Ë D		
				U.S. PATEN	NT DOCUMENTS	AAD 1 1 2002		
Exam.	Cite	U.S. Patent			ame of Patentee or Applicant	Date of Publication Pages, of Cited Document Columns.		
Initial*	No.	No.¹ Number Kind Code² (If known)			of Cited Document	Texinology Center 2680 Wher Relevant Passages of Relevant Figures Appear		
1		6,148,043			Fujimoto	11/14/2000		
		6,141,391		Mo	relos-Zaragoza, et al.	10/31/2000		
		6,138,265		Mo	relos-Zaragoza, et al.	10/24/2000		
		6,119,265			Hara	09/12/2000		
		5,974,095			Kitaura, et al.	10/26/1999		
		6,195,642	B1		Izumi, et al.	02/27/2001		
		6,122,325			Mogre, et al.	09/19/2000		
		6,049,573			Song	04/11/2000		
a	-	6,005,640			Strolle, et al.	12/21/1999		

Exam. Initial*	Cite			Document	Name of Patentee or Applicant	Date of	Pages,	ΙT
	No.¹	Office ³	Number ⁴	Kind Code ^s (If known)	of Cited Document	Publication of Cited Document MM-DD- YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		<u> </u>			·		ļ	
			<u> </u>					
			1	1			1	

Examiner (Signature	2 AZ	Date Considered	1/28/05
			1

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{&#}x27;Unique citation designation number. 'See attached Kinds of U.S. Patent Documents. 'Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Substitute for Form 1449A/PTO (Modified) P (use as many sheets as necessary)			Attorney Docket No.: 04259.P032	Application Number: 09/955,529			
		MAR 0 5 2002 8	First Named Inventor: Mark Peting	RECEIVED			
		PA DOSARRA OTA	Filing Date: September 17, 2001	MAR 1 1 2002			
		OTHER ART - NO PATENT	LITERATURE DOCUMENTS	Technology Center 2600			
Examiner Initials*	Cite No¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published					
4		JAMES TSUI, Frequency Channelization Second Edition, Pages 363 – 396, 2001 A		nd Receivers,			
\sim	/	ZHENGDAO WANG and GEORGIOS Communications where Fourier Meets Minnesota, Minneapolis MN., Pages 1-2	s Shannon, Department of ECE, Ur 21	niversity of			
W		E. VERRIEST, ISEN, Implementing an Adaptive Noise Canceling System to Enhance Sonar Receiver Performance Using the TMS320C31 DSP, ESIEE, Paris, September 1996, Texas Instruments, Pages 1-24.					
W	/	G.A. SHAW, R.A. FORD, J.C. ANDERSON, B.W. ZUERDNORFER, A.H. ANDERSON, RASSP Benchmark 2 Technical Description, Massachusetts Institute Of Technology Lincoln Library, 153 pages total.					
CV		"www.inventra.com/inventra/softcore/workshop/MultiRaFiltDes95/" MENTOR GRAPHICS, Hardware Design of Decimators/Interpolators, Pages 1-38.					
5		"www.mentor.com/inventra/so MENTOR GRAPHICS, Introduction to		<i>L</i> ",			
CV.		http://www.mentor.com/inventra/so GRAPHICS, Design of the Decimation & I		MENTOR			
CV		http://www.mentor.com/inventra/so GRAPHICS, Sigma Delta Converter Applie		/, MENTOR			

Examiner Signature	9	A	Date Considered	1/2		5
			 		7	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.